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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/822,960	04/13/2004	Pey-Yuan Lee	24061.187 (2003-1398)	3594
42717 75	90 06/21/2005		EXAMINER	
	D BOONE, LLP		HUYNH, ANDY  ART UNIT PAPER NUMBER	
901 MAIN STR DALLAS, TX	EET, SUITE 3100 75202			
<b>,</b>			2818	
			DATE MAILED: 06/21/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
·	10/822,960	LEE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Andy Huynh	2818	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RITHE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory provided to reply within the set or extended period for reply will, by a Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a n. a reply within the statutory minimum of thi eriod will apply and will expire SIX (6) MO statute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on			
	This action is non-final.		
3) Since this application is in condition for all closed in accordance with the practice und			
Disposition of Claims			
4) ⊠ Claim(s) 1-22 is/are pending in the application 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) 1-22 are subject to restriction and	ndrawn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Exa	miner.		
10) The drawing(s) filed on is/are: a) ☐			
Applicant may not request that any objection to	• , ,		
Replacement drawing sheet(s) including the control of the control	· ·		
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:  1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	ments have been received. ments have been received in a priority documents have beer ureau (PCT Rule 17.2(a)).	Application No  received in this National Stage	
Address was the same of the sa			
Attachment(s)  1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948	Paper No.	s)/Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date	B/08) 5)  Notice of 6)  Other:	nformal Patent Application (PTO-152) 	

## **DETAILED ACTION**

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Claims 1-22 are pending in the application is acknowledged.

## Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

Group I: Claims 1-9, drawn to a method of manufacturing a microelectronic device, classified in class 438, subclass 906.

Group II: Claims 10-13, drawn to a method of calibrating a metrology tool, classified in class 33, subclass 502.

Group III: Claims 14-16, 21 and 22, drawn to a device, classified in class 257, subclass 48.

Group IV: Claims 17-20, drawn to a method of manufacturing a calibration wafer, classified in class 438, subclass 11.

The inventions are distinct, each from the other because of the following reasons:

Inventions I, II and III or IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are not used together and have different effects.

Inventions of Group III and Group IV are related as product made and process of making.

The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as

claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case unpatentability of the group I invention would not necessarily imply unpatentability of the group II invention, since the device of the group I invention could be made by the processes materially different from those of the group II invention. For example, in Claim 20, a second TiN layer may be formed by atomic layer deposition (ALD) process.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, the fields of search are not coextensive and separate examination would be required, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication on earlier communications from the examiner should be directed to Andy Huynh whose telephone number is (571) 272-1781. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM. The examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Art Unit: 2818

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

AH

06/17/05

Andy Huynh

andy Muyr

Patent Examiner